KALYUZHIN, G.A. [Kaliuzhyn, H.A.], kand.med.nauk

A conversation which has never taken place. Rab.i sial. 38
(MIRA 15:8)
no.6:18 Je 162.
(INFANTS—CAFE AND HYGIENE)

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- 1. KALYUZHIN, M. G.
- 2. USSR (600)
- 4. Dairy Plants Heating and Ventilation
- 7. "Heating generating system in creameries and cheese factories," Mol. prom., 13, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

KALYUZHKA, I.I. (Balashov)

Experimental excursion to a planning office. Mat. v shkole

no.5:45-47 8-0 '59, (MIRA 13: (Geometry-Study and teaching) (Geometrical drawing)

ACCESSION NR: AP4039269

S/0078/64/009/006/1497/1499

AUTHOR: Kalyuzhnaya, A. G.; Polushina, I. K.; Tret'yakov, D. N.

TITLE: Gallium-phosphorus system

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 6, 1964, 1497-1499

TOPIC'TAGS: gallium phosphorus system, gallium phosphide, phase diagram, liquidus curve, solution heat, A^{III} B^V compound, Schroder Van t Hoff law

ABSTRACT: The portion of the liquidus curve of the Ga-P phase diagram for alloys containing 3 to 17.5 at ZP has been established by differential thermal analysis of the mixtures of ultrapure Ga and GaP more accurately than was possible in the past. The heat of solution of GaP in Ga was derived graphically and the data were correlated with corresponding data previously obtained for the InBV and GaBV compounds. It was shown that 1) the heat of solution of

Card 11/2

ACCESSION NR: AP4039269

0.25 molar gallium phosphide is the highest of all AITIBV compounds studied, 2) the heat of solution in the GaBV series unexpectedly decreases from GaSb to GaAs, and 3) a deviation from the Schroder-Van't Hoff law is highly probable when the stoichiometric composition is approached in the GaP system, as was observed in other AIIIBV systems. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 25Nov63

DATE ACQ: 18Jun64

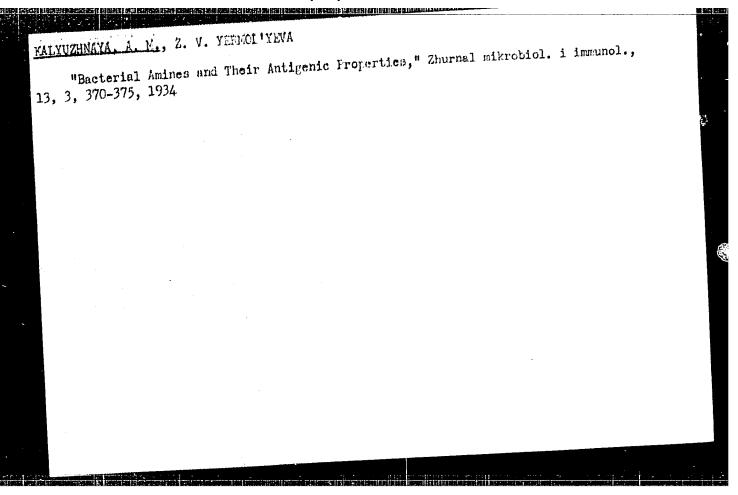
ENCL: 00

SUB CODE: GC, MT:

NO REF SOV: 002

OTHER: 005

Card . 2/2



TORZHINSKAYA, L.P.; KALYUZHNAYA, A.M.

Protein substances of wheats of the southern Ukraine. Izv.vys. ucheb.zav.; pishch.tekh. no.5:28-33 158. (MIRA 11:12)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina, kafedra biokhimii serna i zernovedeniya.
(Ukraine---Wheat-----Varieties) (Gluten)

ROMENSKIY, N.V.; BARER, G.O.; KALYUZHNAYA, A.M.

Bread-baking qualities of some varieties of soft wheats of the southern Ukraine. Izv.vys.ucheb.zav.;pishch.tekh. no.5:34-38 '58. (MIRA 11:12)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina, kafedra biokhimii i zernovedeniya. (Ukraine--Wheat--Varieties)

BARER, G.O.; KALYUZHNAYA, A.M.; SAFRO, M.M.

Envestigating technological properties of wheat. Izv.vys. ucheb.zav.; pishch.tekh. no.3:11-15 '59. (MIRA 12:12)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina. Kafedra mukomol'no-krupyanogo proizvodstva.. (Wheat--Analysis)

ROMENSKIY, N.V.; KALYUZHRAYA, A.M.; BARER, G.O.; ATARAS, L.G.; STOYEVA, O.Z.

Bread baking properties of prospective variaties of wheat. Izv.vys.ucheb.sav.; pishch.tekh. no.6:3-4 159. (MIRA 13:5)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina. Kafedra giokhimii zerna i zernovedeniya. (Wheat-rVarieties)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

DEMIDOV, P.G.; BARER, G.O.; NOKHOTOVICH, A.Ya.; KALYUZHNAYA, A.M.

Milling properties of some wheat varieties of the Ukraine. Izv. vys.ucheb.zav.;pishch.tekh.no.5:12-16 160. (MIRA 13:12)

DEMIDOV, P.G.; BARER, G.O.; NOKHOTOVICH, A.Ya.; KALYUZHNAYA, A.M.

Technological properties of promising Ukrainian wheat varieties. Izv. vys. ucheb. zav.; pishch. tekh. no.4:13-17 '61. (MIRA 14:8)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina, kafedra tekhnologii mukomol'no-krupyanogo i kombikormovogo proizvodstva.

(Úkraine- Wheat--Varieties)

ROMENSKIY, N.V.; CHMYR', A.D.; KALYUZHNAYA, A.M.; MUZYKA, M.F.

Biochemical and baking properties of flour from wheat subjected to Co⁶⁰ garma rays. Izv.vys.ucheb.zav.; pishch. tekh. no.6:28-32 '61. (MIRA 15:2)

1. Odesskiy tekhnologicheskiy institut, kafedra biokhimii i zernovedeniya. (Wheat)(Gumma rays)

TORZHINSKAYA, L. R.; ROMENSKIY, N. V.; KALYUZHNAYA, A. M.; POPOV, P. V.

Morphological and biochemical characteristics of some strong wheats from the 1960 crop in the southern part of the Ukraine. Izv. vys. ucheb. zav.; pishch. tekh. no.5:16-20 162, (MIRA 15:10)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova, kafedra biokhimii i zernovedeniya.

(Ukraine-Wheat)

DEMIDOV, P.G.; BARER, G.O.; KALYUZHNAYA, A.M.; NOKHOTOVICH, A. Yes

Technological characteristics of wheat of the 1961 crop in the southern part of the Ukraine. Inv. vys. ucheb. zav.; pishch. tekh. no.3:18-20 '63. (MIRA 16:8)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova, kafedra tekhnologii zerna.
(Ukraine—Wheat)

ZAYTSEVA, G.N.; BAN TIN-CHZHAO [Pang T'ing-chao]; KALYUZHNAYA, A.P.; BELOZERSKIY, A.N.

Species specificity of soluble ribonucleic acids and aminoacyl-RNA-synthetases. Bickhimiia 29 no.6:1150-1157 N-D *64. (MIRA 18:12)

1. Biologo-pochvennyy fakulitet Gosudarstvennogo universiteta imeni M.V.Lomonosova, Moskva. Submitted June 15, 1964.

IJP(c) L 07816-67 EMT(m)/EMP(t)/ETI SOURCE CODE: UR/0137/66/000/001/G053/G053 ACC NRI AR6017487 AUTHOR: Borshchevskiy, A. S.; <u>Kalyuzhnaya, G. A.; Smirnova, A. D.;</u> Takhtareva, N. K. TITLE: Effect of impurities on the crystallization of gallium arsenide and phosphide from metallic solutions 41 SOURCE: Ref. zh. Metallurgiya, Abs. 1G391 B REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn in-ta. Kishinev, 1965, 65-66 TOPIC TAGS: gallium arsenide, phosphide, gallium compound, metal crystallization ABSTRACT: The authors studied the effect which impurities of Cu, Zn, Cd, Si, Ge, Sn, Se, Te and rare earth metals in gallium have on the crystallization of GaAs and GaP from arsenic or phosphorus solutions in molten Ga. Impurity concentration and crystallization conditions were varied over a wide range. The chemical activity of the resultant GaAs and GaP crystals was determined as well as their electrical conductivity, hardness and coefficient of thermoelectromotive force. The effective coefficients of impurity distribution during crystallization of GaP from dilute solutions are as follows: Zn=0.02, Te=0.4 and S=1.3 [sic]. Plate crystals of GaP and GaAs with predeter-

SUB CODE: 23/1,13

Card 1/1 MC

UDC: 669:621.315.592

mined impurity concentrations were produced. (From RZh Fiz.) [Translation of abstract]

s/032/61/027/003/005/025 B118/B203

AUTHORS: Kalyuzhnaya, G.A. and Khalonin, A. S.

TITLE: Method of analyzing In-As-Se alloys

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 3, 1961, 261-263

TEXT: The course of analysis elaborated by the authors is based on the following principle: gravimetric determination of Se in elementary form; bromatometric determination of As beside In in the filtrate; trilonometric determination of In, also in the filtrate. In can be determined in the presence of As since the latter forms no complex with Trilon B. Se was precipitated by reduction with SO₂ (because of the bromatometric determination of

As, the reducing agent had to be chosen so that its excess after the Se reduction might be easily removed from the solution). On the basis of corresponding test series on commercially produced mixtures and alloys, optimum conditions are given in the following prescription: $\sim 100~\rm ng$ of substance to be analyzed are dissolved in $\rm H_2SO_4$ (dilution 1 : 4), and bubbled with

SO2 in the cold. Water-bath heating is performed until the Se precipitate Card 1/3

s/032/61/027/003/005/025 B118/B203

Method of analyzing ...

is completely transfermed to its black modification. It is filtered through a fritted glass filter no. 4, washed with 0.5 N HoSOA, hot water, and alcohol, dried to constant weight at 105°C, and the Se is weighed out. was removed from the filtrate by heating. After dilution with water and evaporation (to 70-00 ml), 20 ml of HCl and 1-2 drops of methyl crange are added, and titrated with 0.1 KBrO3 (1 ml of 0.1 KBrO3 corresponds to 0.003745 & of As). After titration, the substance is neutralized with ammonia, heated, and alkalized with ammonia. The resulting precipitate is filtered, washed with hot ammonia water, and hisolved in 0.5-1 H H2SOA. A spatula-tip of hydroxylamine and a measured excess of Trilon B are added to this solution. The substance is neutralized with ammonia, heated to boiling, cooled, mixed with 10 ml of buffer (pH = 10) and eriochrome black, and titrated up to violet with zinc sulfate. The absolute error of this method loss not exceed 1.5% in the determination of the three components. The analysis takes about 4 hr. There are 4 tables and 2 Soviet-loc references.

Card 2/3

S/032/61/027/003/005/025 B118/B203 Hethod of analyzing ...

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University), Leningradskiy fiziko - tekhnicheskiy institut

Akademii nauk SSSR (Leningrad Physicotechnical Institute of the Academy of Sciences USSR)

Card 3/3

ACC NR. ARGO 21761

SOURCE CODE: UR/0275/66/000/003/B015/B015

AUTHOR: Borshchevskiy, A. S.; Kelyuzhnaya, G. A.; Smirnova, A. D.; Takhtareva, N. K.

TITLE: Effect of impurities on crystallization of gallium arsenide and phosphide from metal solutions

SOURCE: Ref. zh. Elektronika i yeye primeneniya, Abs. 3B117

REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn. in-ta. Kishinev, 1965, 65-66

TOPIC TAGS: gallium arsenide, gallium phosphide, crystallization, semiconductor

ABSTRACT: The effect of Cu, Zn, Cd, Si, Ge, Sn, Se, Te, and rare-earth metals as impurities in Ga upon the crystallization of GaAs and GaP from liquid solutions of Ga with As and P was studied. The amount of impurities and the conditions of crystallization were widely varied. The chemical activity, electric conductivity, hardness, and thermo-emf of the resulting GaAs and GaP crystals were measured. In GaP crystallization from delute solutions, the effective distribution coefficients In GaP crystallization from delute solutions, the effective distribution coefficients were: Zn -- 0.02, Te -- 0.4, S -- 1.3. Slaty crystals of GaP and GaAs with specified impurity contents were produced. A. R. [Translation of abstract]

SUB CODE: 09 20

Card

UDC: 621.315.592:548.552:546.681118/19

IJP(c) JD/JG L 35355-66 EWI(m)/I/EWP(t)/ETI SOURCE CODE: UR/0058/66/000/001/A065/A065 ACC NR: AR6017804 AUTHOR: Borshchevskiy, A. S.; Kalyuzhnaya, G. A.; Smirnova, A. D.; Takhtareva, N. K. TITIE: Influence of impurities on the crystallization of gallium arsenide and phosphide from metallic solutions SOURCE: Ref. zh. Fizika, Abs. 1A552 REF BOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn in-ta. Kishinev, 1965, 65-66 TOPIC TAGS: gallium compound, gallium arsenide, crystallization, crystal impurity ABSTRACT: The authors investigated the influence of Cu, Zn, Cd, Si, Ge, Sn, Se, Te, and rare-earth metals (Me) as contained in the gallium as impurities on the crystallization of GaAs and GaP from liquid solutions. The amounts of impurities and the crystallization conditions varied over a wide range. Estimates are given of the chemical activity of the obtained crystals, their electric conductivity, hardness, and thermal-emf coefficients. The coefficients of effective distribution in GaP crystallized from a dilute solution is KeffZn = 0.02, KeffTe = 0.4, and KeffS = 1.3. Plate-like GaP and GaAs crystals with prescribed impurity content were obtained. A. Rabin'kin. [Translation of abstract] SUB CCDE: '20, 07

ACCESSION NR: AP4028450

8/0181/64/006/004/1186/1191

AUTHORS: Kalyuzhnaya, G. A.; Oksman, Ya. A.; Smirnov, V. N.; Shmartsev, Yu. V.

TITLE: Investigation of photoconductivity in gallium phosphide by the noncontact method

SOURCE: Fizika tverdogo tela, v. 6, no. 4, 1964, 1186-1191

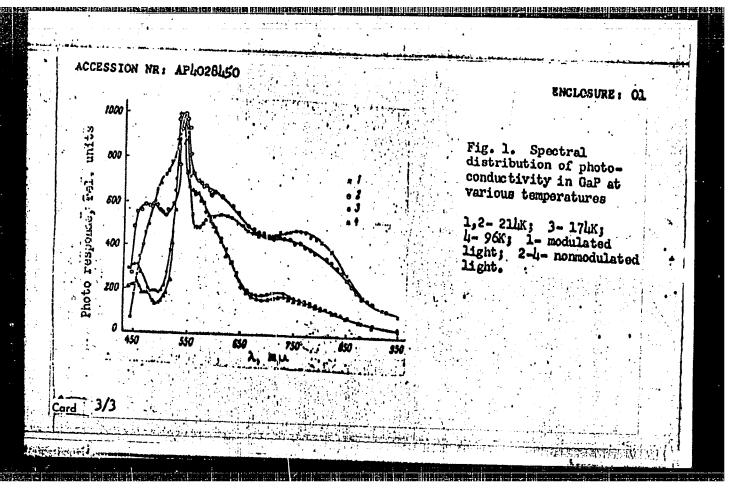
TOPIC TAGS: photoconductivity, gallium phosphide, high frequency method, temperature dependence, noncontact method

ABSTRACT: The authors measured the temperature dependence of photoconductivity in poorly conductive GaP. They also determined the spectral distribution of the photoconductivity at different temperatures. These relations are shown graphically in Fig. 1 on the Enclosure. A short-wave maximum is observed, associated with direct transitions. The photoconductivity is found to drop sharply at temperatures below 60k. It is concluded that the use of high-frequency methods for investigating photoconductivity is justified by the reproducibility of the results and by the agreements of these results with data from the literature. The method has led to refinement of several properties of GaP and, in particular has confirmed the

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ACCESSIO	n nr: ap4028450)			
tion of For this	a completely rel	itary short—wave manifold band. The obscitable model of the signations are necessity. Orig. art. has	erved patterns do : processes taking :	not yet allow con	struc-
ASSOCIATI (Physicol S. I. Vav	ION: Fiziko-tek technical Tretit	hnicheskiy institut ute AN SSSR); Gosu tical Institute)		N SSSR, Leningra cheskij institut :	i im.
		NO REP	SOV: 008	ENCL:	
SUB CODE:				OTHERI	005
SUB CODE:					

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3



8/0048/64/028/006/0985/0988

ACCESSION NR: AP4041359

AUTHOR; Borshchevskiy, A.S.; Kalyuzhnaya, G.A.; Smirnova, A.D.; Takhtareva, N.K.; Tret'yakov, D.N.

TITLE: Morphological characteristics of laminar gallium phosphide crystals /Roport, Third Conference on Semiconductor Compounds held in Kishinev 16-21 Sep 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 985-988, and insert facing p. 988

TOPIC TAGS: crystal structure, crystal growth, gallium compound

ABSTRACT: Gallium phosphide crystals were obtained by slowly cooling dilute solutions of phosphorus in gallium and subsequently separating the precipitated crystals from the excess gallium, as proposed by G.Wolff, P.H. Keck and J.D. Broder (Bull. Amer. Phys. Soc. 29,116,1954). The crystals thus obtained had the zincblende structure, were laminar in form with the (111) faces developed, and ranged in size from 15 imes 10 imes 1 mm^3 to a few hundred microns. The pure crystals were light orange in color and uniformly transparent. The crystal plates had the form of equilateral triangles, 600 rhombi, regular hexagons, or were of mixed shape. A drawing showing the faceting of the simplest rhombic crystals is given in Fig.1 of the Enclosure.

ACCESSION NR: AP4041359

well developed (111) faces reacted differently to etching with HCl; one face retained its initial specular luster, and the other acquired a mat surface. This polarity is attributed to the regular alternation of planes consisting of gallium or phosphorus atoms respectively. Triangular etch pits marking dislocations were observed on the (111) faces. The dislocation density varied greatly even from place to place on the same crystal, and the total variation among the crystals was from 103 to 106 cm-2. Twinning planes parallel to the developed (111) faces were found; the twinning appeared to involve rotation of the two portions of the crystal about the (111) axis. Dark lines were also observed marking the long diagonal of the rhombic plates; these are believed to mark the central portion of the dendritic structure. The growth of the crystals is discussed at some length in rather general terms. It is concluded that the laminar form is a consequence of the non-equilibrium conditions and the excess of one component, that more than one growth mechanism is involved, and that growth probably proceeds differently in the (111) and the $\langle \overline{111} \rangle$ directions. Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

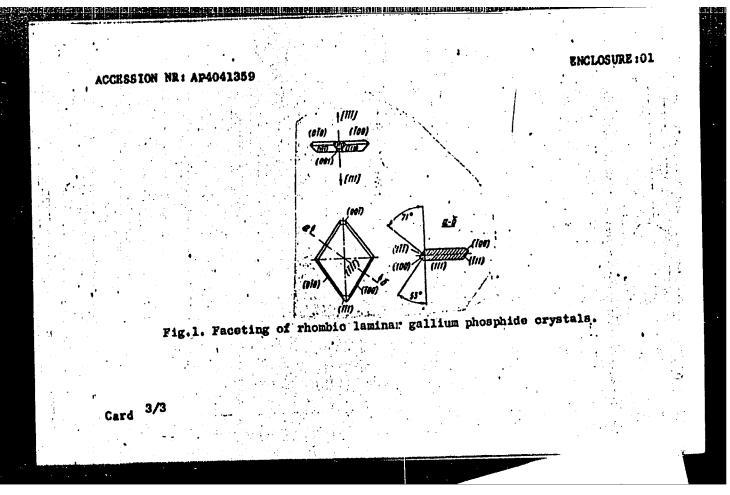
SUB CODE: SS.IC

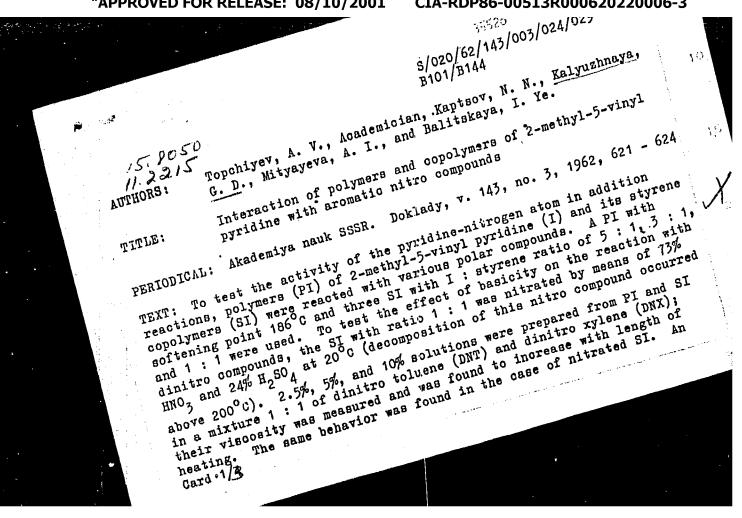
Card 2/3

NR REF BOV. OOL

ENCL: 01

OTHER: 002





S/020/62/143/003/024/029 B101/B144

Interaction of polymers...

extraction of PI dissolved in DNT + DNX by means of benzene was unsuccessful. The increasingly dark red and finally dark brown polymer became incoluble insoluble in benzene, and its melting point was higher than 250°C. From this, cross linking was concluded, and the structure

was proposed. As unpurified DNT + DNX mixture caused a considerable Card 2/4

Interaction of polymers...

5/020/62/143/003/024/029 B101/B144

increase in viscosity, polynitro impurities were presumed to be the cause, and this was tested by adding trinitro toluene (TNT) (1.5 - 37.5%). An increase in TNT content of the solvent brought about an increase in viscosity. The effect of DNT alone and dinitro benzene (DNB) was examined (Fig. 4). Hardly any increase in viscosity occurred in the presence of mononitro toluene (MNT). This slowing-down effect of MNT is explained by the blocking of the active centers of PI (the N atoms). There are 4 figures, 4 tables, and 1 Soviet reference.

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR

(Institute of Petrochemical Synthesis of the Academy of

Sciences USSR)

SUBMITTED:

December 11, 1961

Card 3/4

S/204/63/003/001/008/013 E075/E436

AUTHORS: Topchiyev, A.V. (deceased), Kusakov, M.M.,

Kalyuzhnaya, G.D., Kaptsov, N.N., Koshevnik, A.Yu.,

Razumovskaya, E.A.

TITLE: Characterization of the properties of homo- and

copolymers of 2-methyl-5-vinylpyridine by the methods

of light scattering and viscosimetry

PENIODICAL: Neftekhimiya, v.3, no.1, 1963, 90-93

TEXT: The authors determined the molecular weights and other properties of polymerized 2-methyl-5-vinylpyridine and its 1:1 copolymer with styrene. The polymerizations were carried out by heating 2-methyl-5-vinylpyridine at 80°C for 12 hours in glass ampules with 0.1% benzoylperoxide. From the light scattering and viscosimetry data the following relationship was obtained

$$[\eta] = 6.17 \times 10^{-4} M_W^{0.615}$$

where $[\eta]$ - intrinsic viscosity and M_W - mean molecular weight. The mean molecular weights of the polymer fractions obtained by Card 1/2

Characte	rization of	s/204/63/003 ion of E075/E436		
The mean	molecular (velgats)	on, ranged from 1 x of the copolymer wer ation times of 12 ar table.	6 3.7 x 20 4.14	
ASSOCIAT	ION: Institut nefte (Institute of	khimicheskogo sintez Petrochomical Synthe	a AN SSSR sis AS USSR)	
SUBMITTE	D: August 18, 196			
		[종종: 20일이 그리다 하다 기다.		
Card 2/2		원래(기회가 변경) (P. 1985) - H. 1985		

24,3430 (1227,1395,1163)

30804 S/181/61/003/011/051/056 B104/B138

AUTHORS:

Gross, Ye. F., Kalyuzhnaya, G. K., and Nedzvetskiy, D. S.

TITLE:

Complex structure of the absorption spectrum of monoorystalline gallium phosphide

PERIODICAL:

Fizika tverdogo tela, v. 5, no. 11, 1961, 3543-3545

TEXT: Single crystals of GaP were investigated at nitrogen temperature. Single crystals 4 to 5 mm long, 0.3 mm to a few microns thick were obtained from the melts by crystallization (G. Wolff et al., Bull. Am. Phys. Soc., 29, 1, 1954). In transmitted light thin crystals appeared orange and thick ones yellow-green. The absorption spectra were taken with an NCT-67 (ISP-67) spectrograph with a camera of 1500 mm focal length. In the region studied the dispersion was 10.5 A/mm. The absorption edge of a GaP single crystal is shown in Fig. 1. This spectrum was taken for specimens that had ${f N}$ been cooled slowly. Rapidly cooled specimens had only one broad line (5363.2 A) which is shifted into the long wave range by a few angstroms. The lines can be grouped in pairs: an intense narrow and a weak narrow line, a weak and a strong broad line, and two broad lines. The distance Card 1/x2

GROSS, Ye.F.; KALXUZHNAYA, G.K.; NEDZVETSKIY, D.S.

Complex structure of the absorption spectrum of monocrystalline gallium phosphide. Fiz.tver.tela 3 no.11:3543-3545 N '61. (MIRA 14:10)

l. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. (Gallium phosphide crystals—Spectra)

morphological features of crystals of GaP. G. V. Averkiyeva, A. S. Ebrshenevskiy, G. K. Nalyuzhnaya, A. D. Smirnova, D. N. Tret'yakov, A. K. Takhtareva (10 minutes).

Features of the growth of crystals of silicon carbide of the cubic modification from the gasenus phase. A. A. Pletyushkin, S. N. Gorin, L. M. Ivanova (10 minutes).

Investigation of the physical properties of semiconducting compounds with the lattice of ZnS and NaCl in the melting region and liquid state. V. M. Glazov, S. N. Chizhevskaya, N. N. Glagoleva (10 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

KALYUZHNAYA. G. P.

Government Monopolies

"Legal structure of foreign trade monopolies in the U.S.S.R. and their historical development." Reviewed by N. Inozemtsev, V. Pozdnyakov. Vnesh.torg. no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

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KALYUZHNAYA. K.M.; KALYUZHNYY, V.A.

Paragenesis of accessory beryl, phenacite, and euclase in topazmorion pegmatites. Min. sbor. no.17:136-147 '63. (MIRA 17:11)

l. Gosudarstvennyy universitet imeni Franko, L'vov i Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR.

KALYUZHNAYA, K.M.; BULGAKOV, V.S.

Sectorial twinning of plagioclase in the endomorphism of basic rock in the Volhynian pegmatite field. Min.sbor. 18 no.2:195(MIRA 18:5)

l. Cosudarstvennyy universitet imeni Ivana Franko, L'vov i ekspeditsiya tresta gornotoplivnoy promyshlennosti Kiyevskogo Soveta narodnogo khosyaystva.

KALYUZHNAYA, L.D.; BRYANSKAYA, A.M.; LITOVCHERKO, Ye.T.; LUKACH, I.G.; LYSENKO, Z.A.; MAYKO, I.I.; (OETHOV, S.M.

也<mark>你还没有我们我们是我们的</mark>我们就是我的,我们就是我们的人,你没有一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就

Isolation and study of actinomycetes-antagonists from soils of some Ukrainian provinces. Mikrobiologiia 31 no.4:654-661 J1-Ag '62. (MIRA 18:3)

1. Kiyevskiy institut epidemiologii i mikrobiologii.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

KALYUZHNAYA, L. D.

WHE YOU THERE IN I. TO.

"Combined Action of Antibiotics upon Bacillus Enteritidis." Thar'kov Medical Inst, Khar'kov, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: M-955, 16 Feb 56

WALYUZHNAYA L.D. Antibiosis and Symbiosis.

Antibiotics.

F-2

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76698.

Author : Kalyuzhnaya, L. D.

Inst : Not given.

Title : Combined Effect of Antibiotics on a Coliform

Bacterium.

Orig Pub: Vrachebn. delo, 1957, No 1, 43-46.

Abstract: The sensitivity to antibiotics of 43 investigated

strains of coliform bacterium of various origins was determined by the method of serial cultivation in BPM. The bacteriostatic concentration of syntomycin during a 24 hour exposition fluctuated from 10 to 500 Y/ml. Bactericidal doses comprised 100-500 Y/ml. Bacteriostatic concentrations of sanasin equal 100-800 Y/ml; bactericidal - from 150 to 1000 Y/ml. The combined administration of both antibio-

Card 1/2

Chair Microbiology, Khar kor Med Inst.

41087-66 EWT(1)/T ACC NR SOURCE CODE: UR/0299/65/000/022/B036/B03 AR6011881 AUTHOR: Kalyuzhnaya, L. D. Effect of antibiotics on antagonistic properties of actinomycetes SOURCE: Ref. zh. Biologiya, Abs. 22B241 REF SOURCE: Sb. Antibiotiki. Kiev, Zdorov'ya, 1965, 64-68 TOPIC TAGS: bacteria, antibiotic, soil bacteriology, streptomycin, erythromycine, tetracycline ABSTRACT: 199 strains of actinomycete-antagonists isolated from Ukrainian soils and 8 strains displaying no antagonistic properties in relation to staphylococcus and enteric rods were grown in 0.005, 0.01, 0.05 and 0.1 γ /ml chlortetracycline, 0.05, 0.1, 0.5 and γ /ml streptomycin, and 0.01, 0.05 and 0.1 γ /ml erythromycin to increase antibiotic activity. In some cases antibiotic activity was slightly increased by growth in agar mediums and liquid mediums. However, use of this method requires preliminary selection of the antibiotic and its doses because sometimes a decrease of actinomycete antibiotic activity rather than an increase is observed. Chlortetracycline action failed to induce antagonism in all 8 strains, which initially displayed no Card 1/2

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ant:	ibacter	ial	activity.	v.	Kuznetsov.	Translation	of abstract	'•	
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^{我们要}

I 41086-66 EWT(1)/TACC NR: AR6011883 SOURCE CODE: UR/0299/65/000/022/0037/003 AUTHOR: Bryanskaya, A. M.; Kalyuzhnaya, L. D. TITLE: Actinomycates from irrigated fields as antagonists of blue pus rods and Protous SOURCE: Ref. zh. Biologiya, Abs. 22B254 REF SOURCE: Sb. Antibiotiki. Kiev, Zdorov'ye, 1965, 97-101 TOPIC TAGS: bactericlogy, antibiotic, soil bacteriology ABSTRACT: 3056 actinomyceto strains were isolated from the soils of irrigated Odessa fields; 24.4% of these were antagonists of Bact. proteus vulgaria and 13% were antagonists of Bact. pyocyaneum. In other Odessa Oblast soils, the number of antagonists of Bact. pyocyancum was reduced by half, whereas the percentage of actinomycetes suppressing Bact, proteus vulgaria was the same in trigated fields as in nonirrigated fields. In irrigated field soils more antagonists of Bact. pyocyaneum and Bect. proteus vulgeris ere found in fell and winter than in spring and summer. Most of the active strains are found to be representatives of the Lavendulse-Roseus series and the smallest number is found in the Aureus series. The species composition of actinomycetes Card 1/2 UDC: 615.779.90

ACC NR: AR6011883	/ :
suppressing blue pus rods and Proteus is the same in in nonirrigated fields and is represented primarily and Act. griscus. The predominance of these species soils accounts for the high percentage of antagonist bacteria. V. Kranetsov. Translation of abstract.	by Act. lavendulae in irrigated field s to the test
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KALYUZHNAYA, L.D. [Kaliuzhna, L.D.]; FROLOV, A.F.

Characteristics of actinomycetes, the inhibitors of the growth of the tissue culture of malignant tumors. Mikrobiol. zhur. 27 no.5:10-16 '65. (MIRA 18:10)

1. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii.

LUTOVOHENKO, Ke.T.; KALYUZHNAYA, L.D.; KOZHUKHAR!, I.C.

Actinomycatas of the root system of the apple tree. Mikrobiologiia 34 no.5:876-882 Sed '65. (MIRA 18:16)

1. Krymakaya opytowya stantsiya sederodatow.

KALYUZHNAYA, L.D.; PORTNOV, S.M.; MAYKO, I.I.; LYSENKO, Z.A.;

BHYANSKIYA, A.M.

Antagonistic properties of actinomyces isolated from soils

Antagonistic properties of actinomyces isolated from soils

(ANTINOMYCES)

(UKRAINE—SOIIS—MIGROBIOLOGY)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

KALYUZHNAYA, L.D.; ZADOROZHNAYA, N.A.; OZERYANSKAYA, N.M.

Distribution of actinomycetes with antiviral characteristics in the soils of the Ukraine. Mikrobiologiia 32 no.3:507-512 My-Je 163 (MIRA 17:3)

1. Kiyevskiy institut epidemiologii i mikrobiologii.

SOLLOGUB, V.B.; CHEKUNOV, A.V.; KALYUZHNAYA, L.T.; KHILINSKIY, L.A. Deep-seated structure of Korosten' pluton according to seismic data.

(MIRA 16:12)

Dokl. AN SSSR 152 no.5:1215-1217 0 '63. 1. Institut geofiziki AN UkrSSR. Predstavleno akademikom V.S. Sobolevym.

> APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

SOLLOGUB, V.B., doktor geol.-min.nauk; CHFKUNOV, A.V.; KALYUZHNAYA, L.T.; KHILINSKIY, L.A.

Structure of the upper part of the crystalline crust in the Obruch synecline region based on seismic data. Geofiz.sbor. no.1:18-26
(MIRA 18:12)

1. Institut geofiziki AN UkrSSR. Submitted June 19, 1964.

SOLLOGUB, V.B., doktor geol.-min.nauk; CHEKUNOV, A.V.; PAVLENKOVA, N.I.; KALYUZHNAYA, L.T.

Some characteristics of the wave pattern in the crustal fault zones of the Ukrainian S.S.R. Geofiz.sbor. no.1:32-39 165.

(MIRA 18:12)

1. Institut geofiziki AN UkrSSR. Submitted November 10, 1964.

SOLLOGUB, V.B.; CHEKUNOV, A.V.; KALYUZHNAYA, L.1.; KHILINSKIY, L.A.; KHARECHKO, G.Ye.

Internal structure of the crystalline basement in the southwestern part of the Korosten' pluton according to seismic data. Geofiz. sbor. no. 5:122-130 '63. (MIRA 17:5)

1. Institut geofiziki AN Ukr SSR.

KALYUZHNAYA, L.T.; SOLLOGUB, V.B.; CHEKUNOV, A.V.

Characteristics of the elastic waves from the interface in the crystalline basement in the southern part of the Belozerka iron-ore region and its subsurface structure. Geofiz. sbor. no.8:

(MIRA 18:6)

1. Institut geofiziki AN UkrSSR.

ZAFRODIN, D.M., kand.istorich.nauk; KALYUZHNAYA, N.K.; MAYSTRENKO, L.F.;
MYSNICHENKO, V.P.; PAKHNIN, Ye.I.; SHAPOVAL, A.P.; VASHCHENKO, G.I., red.;
KAMINSKIY, L.N., red.; LIMANOVA, M.I., tekh.red (MIRA 16:6)

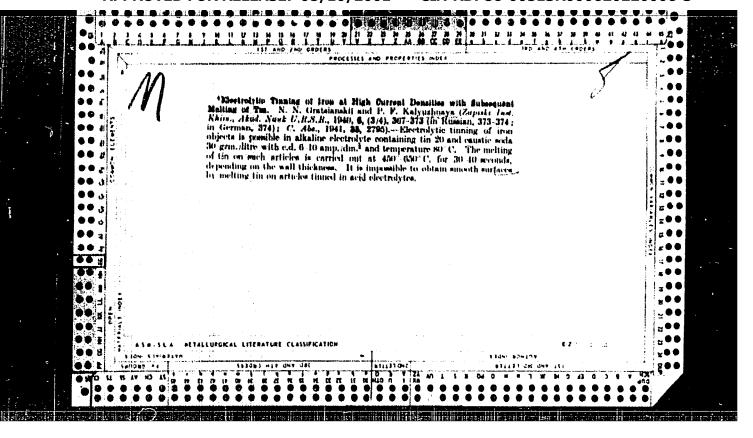
[Work and live the communist way, 1958-1962] Rabotat' i zhit' po kommunisticheski; 1958-1962. Sbornik dokumentov i materialov. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1963. 250 p. (MIRA 16:6)

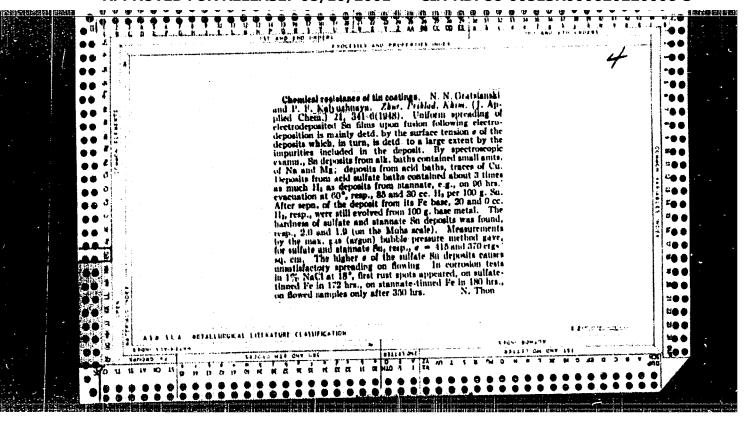
1. Kommunisticheskaya partiya Ukrainy. Khar'kovskiy oblastnoy komitet. Partiynyy arkhiv.
(Kharkov--Efficiency, Industrial)

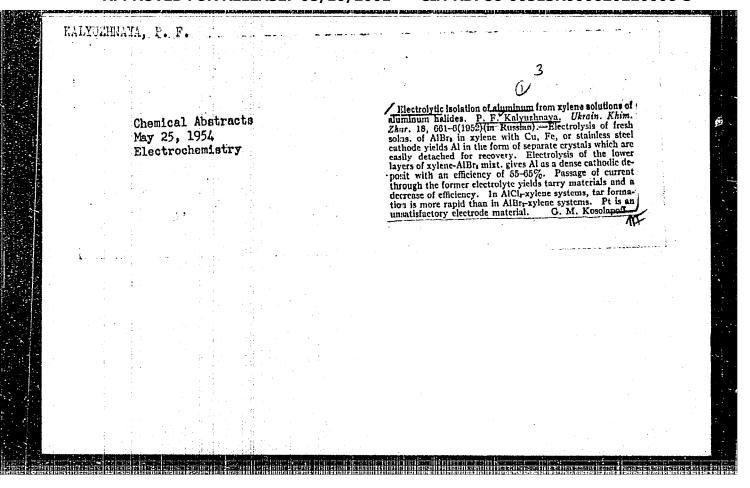
HAGIYEV, H.F.; KULIYEVA, V.G.; KALYUZHNAYA, N.V.; MAMEDOVA, A.D.

Determining the length of serviceability of alumina-bismuth catalysts in the hydrochlorination of ethylene. Dokl. AN Azerb. SSR 15 no.4:293-297 '59. (MIRA 12:6)

1. Institut nefti Akademii nauk Azerbaydshanskoy SSR.
(Ethylene) (Hydrochloric acid) (Catalysts)







GRATSIANSKIY, N.N.: KALYUZHNAYA P. P.

KALYUZHNATA, I'E

Electrodeposition of copper, tin, and lead solutions of complex compounds. Ukr.khim.shur.l9 no.4:377-385 '53. (MLRA 8:2)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk USSR.

(Electroplating) (Compounds, Complex)

MALGUERNAYA, P.F. USER/ Chemistry - Physical chemistry Card 1/2 Pub. 1.16 + 5/25 Keljuzhnave, F. F., and Zosimovich, D. P. Authors STREET, STREET Study of the electrochemical properties of the AlCl3-C8H10 - AgCl. CuCl2, Title SnClo. Pb012, ZnCl2 and CdCl2 system Periodical Ukr. khim. zhur. 21/1, 27-31, 1955 Abstract Experiments were conducted to determine some of the electrochemical properties of the AlCiq-MeCl - (18H10 system. It was found that the processes decurring between the individual components of the investightsic system result in the formation of electrically conductive solutions. A study of the decomposition potentials of the AlCla-MeCl-Callin system, including metal chlorides (Ag. Cu. Sn. Pb. Cd and Zn). Institution : Acad. of Sc., Ukr-SSr, Institute of Gen. and Inorg. Chemistry Submitted July 2, 1953

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	() 우리 등에 보기를 하면 (對於) 사람들은 본 등 () 우리 아이들의 사람들은 사람들이 보고 있는 사람들이 되었다. 그는 사람들이 바람들이 사람들이 되었다. 사람들이 사람들이 보고 있는 것은 사람들이 되었다.
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Abstract	
	showed that Pb had a more negative potential than Sn whereas Ag and Cu
	showed an almost identical decomposition potential. The effect of anodic current density on the anede potential is discussed.
	current density on the anede potential is discussed. Seven references:
	6 USER and L. UEA (1930-1949). Tables; graph.
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	"뭐요요" : B. # ## #

GRATSIANSKIY, N.H.; KALYUZHNAYA, P.F.

eraminaria I a I a

Studies on the corrosion resistance of metal solid solutions.

Part 4: The system Bi-Sb. Thur.fis.khim. 31 no.4:887-892 Ap 157.

(MIRA 10:7)

1. Akademiya nauk USSR, Institut obshchey i neorganicheskoy khimii. (Solutions, Solid) (Bismuth-antimony alloys)

KALYUZ HNAYA, P. F.

AUTHOR:

Gratsianskiy, N.N., Kalyuzhnaya, P.F.

76-11-12/35

TITLE:

The Investigation of the Corrosion Resistance of Solid Solutions of Metals (Issledovaniye korrozionnoy stoykosti tverdykh rastvorov metallov) VI. The Ag-Cd System (VI. Sistema Ag-Cd)

PERIODICAL:

Zhurnal Fisioheskoy Khimii, 1957, Vol. 31, Nr 11, pp. 2458-2463 (USSR)

ABSTRACT:

This is a continuation of previous works by the same author [Ref.1] Here the corrosion resistance of Ag-Cd-alloys was investigated by the method of determining losses of weight in a 5% HCl solution and in a 3% NaCl solution at room temperature. The potentials of corroding alloys were measured. By the method of measuring the microstrength the thickness of the loosened alloy surface layer before and after corrosion was determined. In the 5% HCl solution and in the 3% NaCl solution a considerable decrease of weight losses was found within the domain of 40 At.% silver in Ag-Cd alloys. This indicates the formation of corrosion-resistance limit, probably at the cost of the forming of an anti-corrosion surface layer of particles of the constant Ag2Cd3-compound. The potential amounts of the corroding allows which the surface layer of the corroding allows were measured.

Card 1/2

roding alloys, which were measured during corrosion investigations

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76-11-12/35

The Investigation of the Corrosion Resistance of Solid Solutions of Metals VI. The Ag-Cd System

in the 5% HOl solution and in the 3% NaCl solution, also change considerably if the alloy contains 40 At.% silver. The analyses of the solutions after corrosion show that from the surface of Ag-Cd alloys cadmium passes into the solution. Thus the anti-corrosion surface layer consisting of particles of the constant Ag₂Cd₃ compound protects the alloy from the penetration of chlorine ions, so that the occurrence of corrosion resistance limits is warranted. There are 5 figures, 2 tables, and 17 references, 3 of which are Slavio.

ASSOCIATION AN Ukrainian SSR, Institute for General and Enorganic Chemistry, Kiyev (Akademiya nauk USSR, Institut obshchey i neorganicheskoy khimii, Kiyev)

SUBMITTED: July 5, 1956

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

AUTHORS:

Gratsianskiy, N. N., Kalyuzhnaya, P. F. 76-32-5-12/47

TITLE:

Investigation of Corrosion Resistance of Solid Metallic Solutions (Issledovaniye korrosionnoy stoykosti tverdykh rast-

vorov metallov) The System Mc - Cd (Sistema Mg - Cd)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5,

pp. 1038 - 1042 (USSR)

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ABSTRACT:

In continuation of already carried out experiments two types of structures are investigated in this paper; after annealing at conversion temperatures of solid solutions into chemical compounds (I), after annealing on conditions excluding the formation of chemical compounds (II), with the function of the corrosion resistance limit of the Mg - Cd system on the aggressive medium, as well as the composition and thickness of the surface layer at the boundary alloy-corrosive medium of the parts prior to and after the occurrence of the corrosion resistance boundary being investigated in the present case. Alloys of different cadmium content, as well as pure metals were investigated, with a 0,1 n sulfuric acid solution and a 5% sodium sulfate solution being used. It was observed that alloys richer in magnesium dissolve more quickly in both solutions,

Card 1/3

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Investigation of Corrosion Resistance of Solid Me- 76-32-5-12/47 tallic Solutions. The System Mg - Cd

with a covering layer of corrosion products difficult to solve being formed in the sodium sulfate solution, which fact makes difficult a judgement on the limit of corrosion resistance. The potential measurements of the corroding alloys showed an equal change with the composition, with the potential stabilizing more quickly in the alloys (I) in both solutions, which is explained by a regrouping of the atoms in the alloys (II). The polarographic analyses of the solutions prior to and after corrosion, after the dissolution of the thin surface layer of the alloys showed that prior to the corrosion the composition of the surface layer corresponds to that of the alloy, while after the corrosion the limit of the corrosion resistance is formed by the formation of a layer of cadmium atoms on the surface in 0,1 n sulfuric acids, and in 5% sodium sulfate solutions corrosion products form which are difficult to solve. The investigations of the loosening and thickness of the surface layer showed that after the corrosion the loosening in alloys rich in cadmium amounts to 1,5 while this value is twice as great in alloys rich in magnesium. There are 3

Card 2/3

Investigation of Corrosion Resistance of Solid Me- 76-32-5-12/47 tallic Solutions. The System Mg - CD

figures, 2 tables and 2 references, 2 of which are Soviet.

ASSOCIATION: Akademiya nauk USSR Institut obshchey i neorganicheskoy

khimii, Kiyev (Kiyev Institute for General and Inorganic

Chemistry, AS Ukrainian SSR)

SUBMITTED:

November 30, 1956

1. Corrosion resistant alloys—Analysis 2. Cadmium—magnesium systems—Corrosion 3. Cadmium—magnesium systems—Surface properties 4. Polarographic analysis—Applications

Card 3/3

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5(4), 18(7)

SOV/76-33-5-7/33

AUTHORS:

Gratsianskiy, N. N., Kalyuzhnaya, P. F. (Kiyev)

TITLE:

Investigation of the Corrosion Resistance of Solid Solutions of Metals by the Method of Radioactive Isotopes (Issledovaniye korrozionnoy stoykosti tverdykh rastvorov metallov metodom radioaktivnykh izotopov).II. The System Mg-Cd (II. Sistema

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5, PP 997 - 1001 (USSR)

ABSTRACT:

A previous paper (Ref 1) dealt with the problem mentioned in the title in connection with indium-lead alloys. This paper reports on the results of investigations of two Mg-Cd alloys, namely alloy 1 (26.6 atm% Mg, 73.4 atm% Cd) and alloy 2 (74.5 atm% Mg, 25.5 atm% Cd). Cd¹¹⁵ was added while the alloys were melted. Rb⁸⁶ was used in determining the depths of the micropores. The method of this determination is described in reference 1. The following observations were made with regard to the distribution of Rb Cl in the surface pores of the metals Mg, Cd, and the Mg-Cd alloys; with Cd and Mg, Rb*Cl had penetrated to a depth of 1 before the corrosion, with

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图55的复数形式全球的重要性的重要性的影响。这些的答案的表面的表现的影响的影响的特别的影响。 第55章

sov/76-33-5-7/33 Investigation of the Corrosion Resistance of Solid Solutions of Metals by the Method of Radioactive Isotopes. II. The System Mg-Cd

> Cd to a depth of 3 pu and with Mg of 5 pc. after the corrosion. With alloy 1 Rb*Cl penetrated to 1 k before the corrosion; the penetration depth remained unchanged after corrosion. With alloy 2 Rb Cl penetrated to 2 k before corrosion, and to 4k after corrosion. The isotope exchange between Cd, kg-Cd alloys, and Cd ions in solution was investigated by means of the isotope Cd115. The alloys were exposed to a jet of $CdSO_A$ solution with pH = 1.38 for 10 minutes. Then tin metal layers were taken-off of the samples by means of anodic dissolution at high current intensity, and the isotope quantity dissolved was measured by radiometry. Upon treatment with CdSO, solution isotope exchange with dissolved ions occurred on the surface only. No considerable change of the radioactivity of lower layers could be observed. The corrosion was carried out by means of 0.1 normal sulfuric acid. Figures 1 and 2 show the results of the radiometric investigation of alloy 1 and alloy 2 before and after corrosion. Before corrosion,

Card 2/3

Investigation of the Corrosion Resistance of Solid Solutions of Metals by the Method of Radioactive Isotopes. II. The System

> the cadmium is equally distributed in the crystal lattice of the alloy; increased Cd content is present to 1 to depth only; it is probably adsorbed on the surface of the micropores. After corrosion, the surface composition of the two alloys has changed. The first sector (depth: about 1 µ) consists of Cd atoms which remained on the surface, or of Cd which was partially displaced from the solution by Mg ions. At a depth of from 3 - 10k the Cd content is increased, probably because of diffusion from the surface; the lower layers are unchanged. The unstable alloy 2 has a looser surface; the looseness increases in the course of corrosion leaving either a loose crystal skeleton or causing the atoms to lose the connection and dissolve. There are 2 figures and 13 references, 11 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Kiyev (Institute of General and Inorganic Chemistry Kiyev)

SUBMITTED:

August 26, 1957

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

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\$/073/60/026/001/008/021 B004/B054

AUTHORS:

Gratsianskiy, N. N. and Kalyuzhnaya Pro-F

TITLE:

Study of Corrosion Resistance of Solid Metal Solutions of

the System Fe - Cr

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 1,

pp. 53-57

TEXT: The authors attempted to find the cause of the formation of corrosion-resisting regions in solid alloys of the components Fe and Cr, both of which are subject to corrosion. They investigated the follow ing components: No. 1, Armco iron; No. 2, chromium with Fe traces; No.3, 47.34 atom% Fe, 52.52 at% Cr; No.4, 79.71 at% Fe, 20.1 at% Cr; and No.5, 86.1 at% Fe, 13.60 at% Cr. Corrosion was conducted in 5% HCl, 5% H₂SO₄, 5% Na₂SO₄ solution, and 3% NaCl solution at 20°C for 180 hours, and the loss in weight of the specimens due to corresion was determined: Table 1, corrosion losses, g/m2,h

Card 1/3

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B004/B054

Study of Corrosion Resistance of Solid Metal

Solutions of the System Fe - Cr

No. of specimen	5% H ₂ 80 ₄	5% HC1	5% Na2SO4	3% NaCl
3	0.0 10.7 3.74	127.0 8.2 8.91	0.0 0.008 0.012	0.0 0.05 0.05
2			Pirmed hy III	

The stability of sample No. 3 in H_2SO_4 was confirmed by measuring the potential. A potential jump occurs at a chromium content of about 50% (Fig. 1). A 3-4 µ thick layer of the corroded specimens was electrolytically dissolved, analyzed, and its composition compared with the solution obtained by corrosion. In 5% HCl, the components dissolve at the ratio at which they are present in the alloy. In 5% H₂SO₄, a corresion-resisting layer is formed on the surface of the alloy, which corresponds to the o phase whose basis is the FeCr compound. The thickness of this layer is 1 µ . N. N. Kurnakov, N. I. Korenev, I. I. Kornilov, and V. S. Mikheyev are mentioned. There are 2 figures, 3 tables, and 5 references: 4 Soviet

Card 2/3

and 1 German.

s/073/60/026/003/003/004 B016/B054

AUTHORS:

Gratsianskiy, N. N., and Kalyuzhnaya, P.

TITLE:

Investigation of the Resistance to Corrosi

Solutions of Metals of the System Fe

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 3,

pp. 324 - 326

TEXT: The authors wanted to find the limit of resistance to corrosion of alloys of the system Fe - Ni - Cr and also to determine the composition and thickness of the surface layer of the alloys, which forms due to corrosion of the solid metal solutions. Alloys with varying content of the individual components and pure nickel were used. They were ground, and tempered for 6 h in an argon atmosphere at 1150°C. The samples 2, 3, and 4 were subsequently hardened. Corrosion was gravimetrically examined. The alloys were exposed to 5% solutions of H2SO4, HCl, and Na2SO4, as well as to a 3% NaCl solution at 20°C for 200 h. In Na₂SO₄ and NaCl, the alloys showed only small losses in weight. The limit of resistance Card 1/4

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Investigation of the Resistance to Corrosion S/073/60/026/003/003/004 of Solid Solutions of Metals of the System B016/B054

Fe - Ni - Cr

to corrosion cannot be established in these salt solutions within 200 h. Fig. 1 shows the results obtained in ${\rm H_2SO_4}$ and HCl. The authors found that in 5% solutions of these acids the loss in weight due to corrosion is reduced rapidly in alloy 3 (20.43% of Cr, 9.77% of Ni). A limitation of the resistance to corrosion was observed in the ternary alloys of the system Fe - Ni - Cr in a range corresponding to the transition from the $\alpha-$ to the $\gamma-$ phase. The authors measured, at the same time, the potentials of the corrodible alloys. Fig. 2 shows the stabilized potentials as a function of alloy composition. A sudden jump in the direction of positive potential values, depending on the alloy composition, is observed in the range corresponding to the $\alpha-\gamma$ phase transition, which again confirms the existence of a limit of resistance to corrosion. The authors dissolved thin layers in 5% H2SO4 at high current densities for 1-2 sec (Table 1) to determine the surface layer (thickness and composition) forming due to the action of the solution on the alloy surface. The results show that the surface layer is slightly enriched with nickel in the little resistant alloys. This layer remains nearly Card 2/4

Investigation of the Resistance to Corrosion S/073/60/026/003/003/004 of Solid Solutions of Metals of the System B016/B054

Fe - Ni - Cr

unchanged in resistant alloys. In the latter case, the ratio of components corresponds to that in the alloy. The authors analyzed the corrosion solutions to determine the amounts of components which, during corrosion, passed over from the alloy surface into the solutions. Table 2 shows that in nonresistant alloys the ratio Fe sol : Ni sol is higher than the ratio Fe:Ni in the alloy. From the resistant alloys 3, the components pass over into the solution in such amounts as correspond to their content in the alloy. Microhardness measurements showed that nearly no loosening of the surface layer takes place in resistant alloys. The authors therefrom conclude that the limit of resistance to corrosion originates at a Cr content of 18% and a Ni content of 8%, and is explained by the nature of the 7-phase. The cause of the origin of this limit cannot be explained from the standpoint of the Tamman theory (Ref. 3). There are 2 figures, 2 tables, and 3 references: 2 Soviet and 1 German.

Card 3/4

Investigation of the Resistance to Corrosion S/073/60/026/003/003/004 B016/B054 of Solid Solutions of Metals of the System Fe - Ni - Cr

Institut obshchey i neorganicheskoy khimii AN USSR ASSOCIATION:

(Institute of General and Inorganic Chemistry of the

AS Ukrssk)

SUBMITTED: July 31, 1958

Card 4/4

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

S/080/60/033/010/012/029 D216/D306

AUTHOR:

Kalyuzhnaya, P.F.

TITLE:

On the effect of the surface composition of the eathode and the nuture of the electrolyte on the quality

and properties of zinc plating

HORIODICAL: Zharnal prikladnoy khimii, v. 33, no. 10, 1960,

2253 - 2260

TEMP: The whole present work deals with the study of theeffect of the surface composition of the cathode on the properties of electralytical zinc plating and its dependence on the material of the cathode, nature of electrolyte and physico-chemical conditions of the deposition. To do this, the following was carried out (1) electrol, the deposition of zinc from pyrophosphate, zincate and acid electrolytes; (2) metallographic and microscopic examination of dispersion of precipitate and determination of its grain size and is dependence on the method of pretreating the cathode and the nature of electrolyte; (3) measurement of cathode polarization on

Card 1/4

On the effect of the surface ...

S/080/60/033/010/012/029 D216/D306

the deposition of zinc from pyrophosphate compared to zincate and acid electrolytes; (4) study of the effect of surface composition of the cathods and the nature of the electrolyte on the porosity of deposited sinc. The cathodes used were Armoo iron, steel 3 and copper and zine anodes containing small traces of Ca, Cu and Pb. The working surface of the cathode was 20 cm2. The results obtained showed that the quality and properties of zinc deposits from pyrophosphate, zincate and acid electrolytes on the cathodes of Armoo iron, steel 3 and copper which were pretreated as described above, are greatly affected by the surface composition of the cathode only in the case of the acid electrolyte while in zincate and especially in the case of pyrophosphate electrolyte this effect was negligible. The best small-crystalline, dense deposit of zinc were obtained on the cathodes, pretreated by mechanical polishing, while large-grain, unsatisfactory plating was ascertained on the loosened surfaces. The pretreating passivation of the cathode surface had a positive effect only on the quality of the plating from the acid electrolyte. The measurement of cathodic polarization has

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shown that much higher polarization of zinc results in the pyrophosphate electrolyte than in other zinc electrolytes. The stirring of the electrolyte decreases the cathodic polarization in the pyrophosphate cleetrolyte which suggests its concentration-diffusion character. The measurement of cathodic potentials with time and at different current densities established that the deposition of zinc from the acid electrolyte on the passivated cathode surface occurs at much lower current density than on the surfaces treated by different methods. The determination of grain size and its dependence on cathode treatment and on the nature of the electrolyte and of porosities has shown that largest and most porous zinc deposits were obtained on loosened cathode surfaces; the best nonporous plating, independent of cathode pretreatment (except for loosening), was obtained from the pyrophosphate electrolyte. The adhesion of zine plating to the base metal for all forms of cathode pretreatment was found to be very firm; on bending, the platings break with the metal without chipping. There are 5 figures, 2 tabies and 14 references: 13 Soviet-bloc and 1 non-Soviet-bloc. The

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620220006-3"

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reference to the English-language publication reads as follows: J. Vaid, T.L. Rama-char, Bl. India, Sec. Electroch. Soc., 7. 1, 1958.

SUBMITTED: January 8, 1960

Card 4/4

KALYUZHNAYA, P.F., kand.khim.nauk; LISOGOR, A.I., inzh.

Removing scale with pickling pastes. Mashinostroenie no.2:76-79 Mr-Ap '62. (MIMA 15:4)

1. Institut obshchey i neorganicheskoy khimii AN USSR. (Metals--Pickling)

37849 s/080/62/035/005/008/015 D204/D307

1.1800

Kalyuzhnaya, P. F. and Pimenova, K. N.

TITLE:

AUTHORS:

The electrolytic coating of metals with a Pe-Ni-Or

alloy

Zhurnal prikladnoy khimii, v. 35, no. 5, 1962, 1057-PERIODICAL:

1065

The present work was carried out to determine the possibility of preparing corrosion resistant Fe-Ni-Cr coatings electrolytically. The following conditions were found to be optimum: electrolyte - KCr(SO₄)₂.12H₂O 400, NiSO₄.7H₂O 56, (NH₄)₂SO₄.FeSO₄.6H₂O 39, trisodium citrate 70 and NaF 8 g/l; pH 1.6 - 1.8; 1×18 H 37 (1Kh18N9T) steel anodes; cathode current density (D) 15 - 16 amp/dm² at 25°C and 18-20 amp/dm² at 40°C. At 25°C the Cr content of the costing decreed and that at 25°C and 18-20 amp/dm² at 40°C. the coating decreased and that of Fe increased with D, up to a minimum/maximum at 14 - 18 amp/dm² and rose/fell thereafter; the Ni content was almost independent of D. At 40°C the Cr rose to a

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maximum at 22 amp/dm², Fe decreased and Ni went through a minimum at 18 - 22 amp/dm² with increasing D. Current efficiency (η) of the alloy, Cr and Fe rose with increasing D; $N_{\rm Ni}\not\sim D$. Current efficiencies $N_{\rm alloy}$ and $N_{\rm Fe}$ decreased with increasing temperature at D = 15 amp/dm² to a minimum at 30°C and increased with temperature at D = 22 amp/dm², to a maximum at 40°C. $N_{\rm Cr}$ decreased with rising temperature and $N_{\rm Ni}$ remained constant at D's equal to 15 and 22 amp/dm². Good results were obtained using a cell with a diaphragm (250 g $N_{\rm 2}$ SO₄/l as the anolyte) and maintaining the pH of the catholyte at 1.6 - 1.8 throughout the process, with D = 10 - 15 amp/dm², at 25 - 30°C, with a current efficiency (18%. Coatings thicker than 6 $N_{\rm C}$ were weakly bonded to the metal base, but could be made adherent by heating in vacuum for 5 hours at 1000°C. Microhardness of the alloy was equal to that of 1Kh18N9T sheet steel before and was $N_{\rm 10}$ % lower after the hot-vacuum treatment. The coatings were resistant to 5% $N_{\rm 250}$ but tended to flake off owing to dissolution

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The electrolytic coating ...

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of the base metal through fine cracks. There are 5 figures and 4 tables.

SUBMITTED: May 3, 1961

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KALYUZHNAYA, P.F.; PIMENOVA, K.N.

Electrolytic coating of metals with a Fe-Ni-Cr alloy.

Zhur.prikl.khim. 35 no.5:1057-1065 My '62. (MIRA 15:5)

(Iron-nickel-chromium alloys)

(Protective coatings)

KALYUZHNAYA, P.F.; PIMENOVA, K.N.; GAVRILOVA, Z.P.

Rate of discharge of iron, nickel, and chromium ions during the

electrolytic deposition of a Fe-Ni-Cr alloy. Ulr.khim.zhur. 30 no.11:1161-1167 64. (MIRA 18:2)

KALYUZHNAYA, F.F.; PINENOVA, K.N.; GAVRILOVA, Z.P.

Internal tension in electrodeposits of the Fe-Ni-Sr alloy.

Zhur. prikl. khim. 37 no.9:2060-2061 S 164.

(MIRA 17:10)

KALYUZHNAYA, R., kand.med.nauk

Reactions of the cardiovascular system in children to prolonged helminth invasion and intestinal lambliasis. Pediatriia no.12: 15-22 '61. (MIRA 15:1)

1. In otdeleniya patologii starshego detskogo vozrasta Instituta pediatrii AMN SSSR (dir. - dotsent M.Ya. Studenikin).
(WORMS, INTESTINAL AND PARASITIC) (CARDIOVASCULAR SYSTEM)
(GIARDIASIS)

KALYUZHNAYA, R.A.

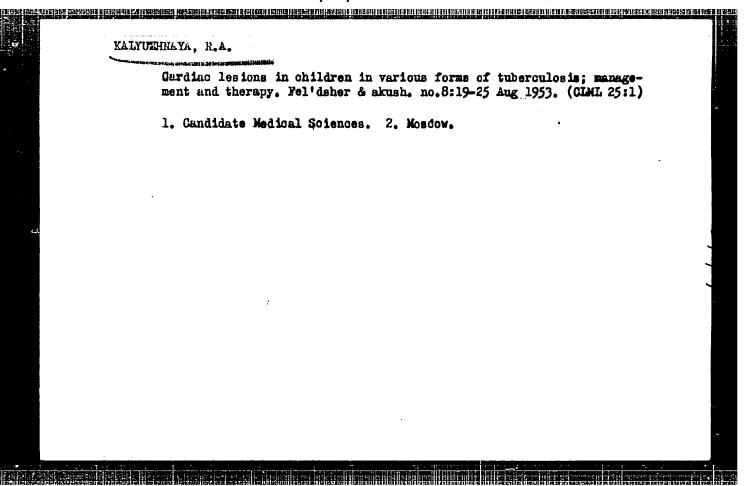
Function of the vogetative section of the central nervous system in children in various forms of tuberculosis. Pediatriia, Moskva no 6:24-32 Nov-Dec 1952. (CIML 23:5)

1. Candidate Medical Sciences. 2. Of the Tuberculosis Clinic (Head -- Prof. I. V. Tsimbler) of the Institute of Pediatrics of the Academy of Medical Sciences USSR (Director -- Prof. M. N. Kasantseva).

KALYUKHNAYA, R.A.

Early diagnosis of tuberculosis in children. Fel'dsher & akush. no.6:
16-22 June 1953.

1. Candidate Medical Sciences. 2. Moscow.



Cardiac function in various forms of tuberculosis in children. Frobl. tub. no.3:21-30 My-Je 154. (MIRA 7:11)

1. Is tuberkuleznoy kliniki (zav. prof. I.V. TSimbler) Instituta pediatrii Akademii meditsinskikh nauk SSSR (dir. prof. H.M. Kazantseva)

(TUBERCULOSIS, in infant and child, heart in,)
(HRART, in various diseases, tuberc. in child.)

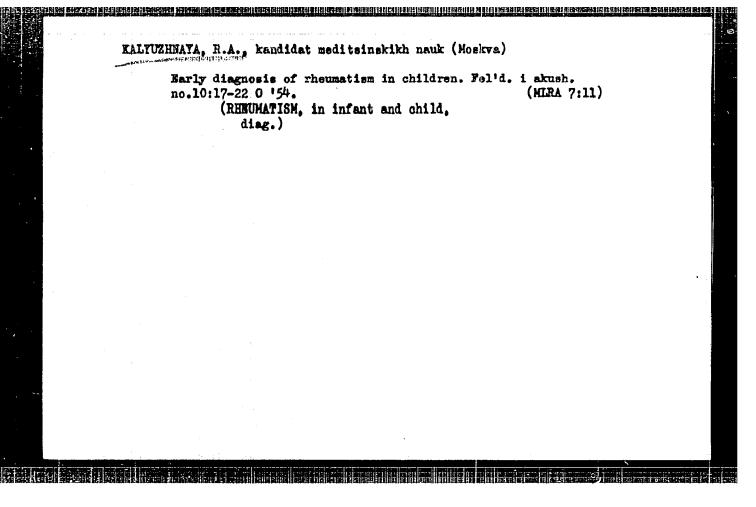
KALYUZHNAYA, R.A.

KALYUZHNAYA. R.A., kandidat meditsinskikh nauk.

Differential diagnosis of cardiovascular diseases with chronic tuberculous intoxication from early forms of rheumatic heart disease in children. Pediatriia no.6:26-35 N-D '54. (MIRA 8:4)

1. In Instituta pediatrii AMN SSSR (dir.-prof. O.D.Sokolova-Ponomareva)

(RHEUMATIC HEART DISEASE, differ. diagnosis cardiovasc. dis. with tuberc. intoxication)
(CARDIOVASCULAR DISEASES, in infant and child gompl. with chronic rheum. manifest. differ. diag. from rheum. heart dis.)



KALYUZHNAYA, R.A.

MOSKACHEVA, K.A., kandidat meditsinskikh nauk; KALYUZHNAYA, R.A., kandidat meditsinskikh nauk; YEFIHOVA, A.A.

Roentgenotherapy of cerebral edema complicating tuberculous meningitis. Vent.rent.i rad. no.1:49-53 Ja-Y 155. (NIRA 8:5)

1. Iz Instituta pediatrii (dir. prof. M.N.Kazantseva) Akademii meditsinskikh nauk SSSR i rentgenoterapevticheskogo otdela (zav. prof. L.D.Podlyashuk) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. I. G. Lagunova).

(TUHERCULOSIS, MENINGEAL, complications, brain edema, ther., x-ray)
(RADIOTHERAPY, in various diseases, brain edema in tuberc. meningitis)
(ERAIN, diseases, edema in tuberc. meningitis, x-ray ther.)
(EUENA, brain, in tuberc. meningitis, x-ray ther.)

(RIE SEESTH ANT)

2385. KALYUZHNAYA R.A. TbClin., Inst. of Pediat., Acad. of Med. Sci., Moscow. *Disturbances in the function of the vegetative part of the central nervous system in tuberculosis in children (Russian text) Z. NEVROPAT. PSIKHIAT. 1955, 55/1 (22-28) Tables 2 Investigation of the condition of the nervous system in 54 children with the was ef-	
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